Hydrocollator®

HEATING UNITS

User Manual

120 - 220/240 Volt Units

SS E-2 E-1

CHATTANOOGA GROUP A DIVISION OF encore MEDICAL

ISO 13485 CERTIFIED

TABLE OF CONTENTS

Foreword 2
Precautionary Definitions 2-3
Nomenclature 4-6
Technical Specifications 7-8
Setup 9
Operation 9
Troubleshooting 10
Replacement Parts 11-16
Maintenance 17-18
Warranty 19

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FOREWORD

This manual contains general instructions for operation, precautionary instructions, and maintenance recommendations for the owners and operators of the Hydrocollator SS, E-2 and E-1 Heating Units. In order to obtain maximum life and efficiency of the Hydrocollator Heating Units, please read this manual thoroughly and follow all instructions prior to operating the unit.

Specifications put forth in this manual were in effect at the time of publication. However, owing to Chattanooga Group's policy of continual improvement, changes to these specifications may be made at any time without obligation on the part of Chattanooga Group.

PRECAUTIONARY DEFINITIONS

The precautionary instructions found in this section and throughout this manual are indicated by specific symbols. Understand these symbols and their definitions before operating this equipment. The definitions of these symbols are as follows:

= **CAUTIONS** - Text with a "CAUTION" indicator explains possible safety infractions that could have the potential to cause minor to moderate injury or damage to equipment.

= **WARNINGS -** Text with a "WARNING" indicator explains possible safety infractions that will potentially cause serious injury and equipment damage.

= **DANGERS** - Text with a "DANGER" indicator explains possible safety infractions that are imminently hazardous situations that would result in death or serious injury.

NOTE: Throughout this manual, "**NOTE**" may be found. These notes are helpful information to aid in the particular area or function being described.

CAUTION

- Read, understand and practice the precautionary and operating instructions. Know the limitations associated with the Hydrocollator SS, E-2 and E-1 Heating Units. Observe the cautionary and operational decals installed on the unit.
- The thermostat is extremely sensitive and the slightest adjustment will alter the temperature several degrees. The recommended operating temperature is 160° F to 166° F (71° to 74°C). The temperature of the water should be checked with a thermometer after every adjustment, before using the HotPacs. Always allow sufficient time for the water temperature to stabilize.
- Always keep the water level over the top of the HotPacs to avoid burning or scorching of the packs.
- Never allow the HotPacs to dry after use.
- Check water level daily as it has a natural loss due to evaporation.

⚠ CAUTION

- Never adjust the thermostat too high. The thermostat is extremely sensitive to the slightest adjustment.
- Clean the tank periodically as described in the maintenance portion of this manual.
- Always replace Hydrocollator HotPacs as soon as they show signs of wear.
- If the unit is to be left unattended for a period of time, unplug the unit, remove the packs, empty the water, and clean the tank.
- Do not move the Hydrocollator while filled with water. Tipping over could result in burns to the user or others.
- Always unplug the Hydrocollator from the power source before attempting to empty water from unit.
- Always use factory authorized replacement parts.
- Always destroy and replace HotPacs which are exposed to contamination: hazardous or cleaning materials, bodily fluids, mold, etc.

⚠ WARNING

- ***Grounding the Hydrocollator SS, E-2 and E-1 Heating Unit:*** Make certain the unit is electrically grounded by plugging into a hospital grade electrical outlet with a ground terminal receptacle (U-ground outlet), **120 VAC only**. Follow the National Electrical Code.
- The water temperature in the Hydrocollator is approximately 160° F (71° C), and the water scalding temperature is approximately 120° F (49° C).

Risk of explosion if used in the presence of flammable anesthetics.

Explanation of Symbols

ATTENTION: Consult accompanying documents.

Type B equipment. Denotes the degree of protection against electric shock, particularly regarding allowable leakage currents and the reliability of the protective earth connection.

NOMENCLATURE

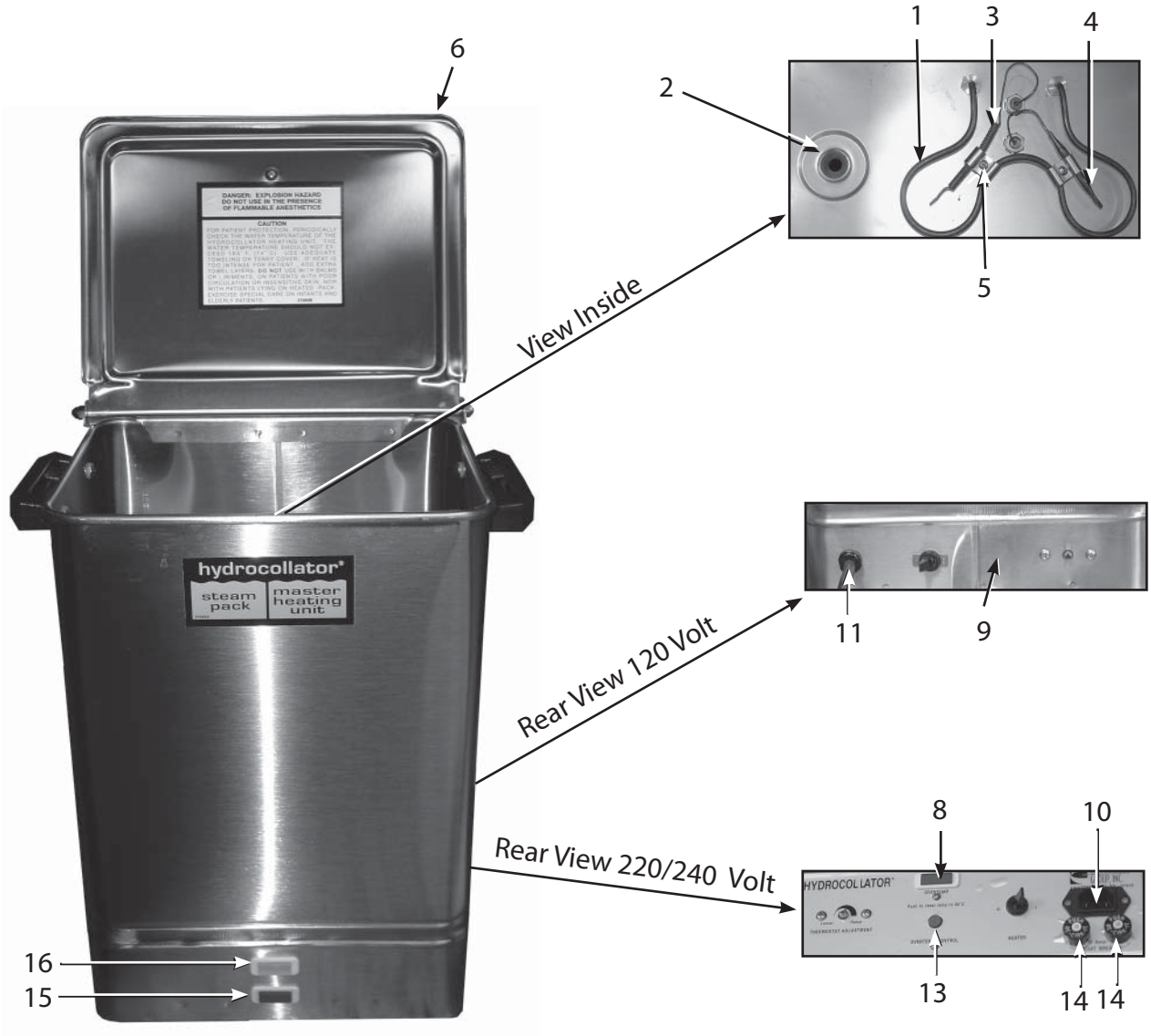
WHITE LAMP (where applicable), when illuminated, indicates that main power is connected, the switch is on and unit is operating.
RED LAMP (where applicable), when illuminated, warns of an overheat/low water condition. Action is necessary to correct the condition.
GREEN LAMP (220/240 volt units), when illuminated, indicates that main power is connected, the switch is on and unit is operating.

IMPORTANT: Some models (220-240 Volt) are fitted with a thermal cut-out thermostat which acts as a "Non self-resetting" thermal cut-out. In the unlikely event of a fault condition, this device is designed to open the power circuit between 190°F ± 14°F (88°C ± 8°C). It is not possible to alter its operating range. The operation of the unit may be restored by depressing the red button after the water/element temperatures have been allowed to cool. If the fault condition persists, please contact Chattanooga Group or an authorized agent.

NOMENCLATURE

Diagram

1. Heating Element
2. Drain
3. Overtemp Thermostat
4. Thermostat, Hydraulic
5. Bracket (Brkt. & Bulb Themo A/B Assembly)
6. Lid
7. 3 inch Caster
8. Overtemp Light
9. Junction Box (J-Box) Cover
10. IEC connector
11. Power Cord
12. Drain Valve (Not Shown)
13. Reset Overtemp Button*
14. Fuses
15. Pilot Lamp, Red
16. Pilot Lamp, Clear

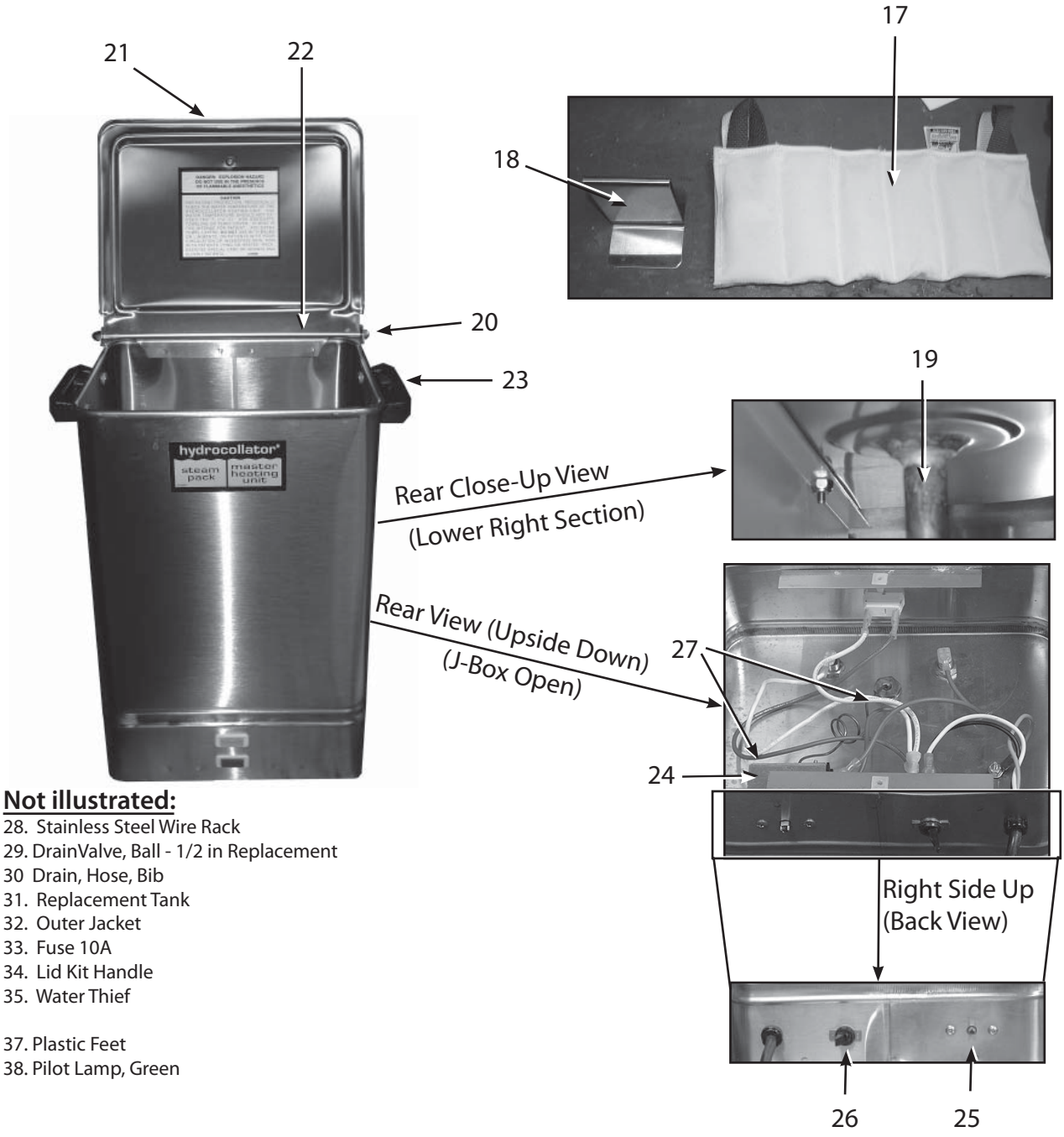


NOTE: E-1, E-2 models shown; models will vary.

* All 220-240 Volt have this button

Diagram (continued)

17. Hot Pac
18. Neck Pac Insert
19. Drain, Copper Tube
20. Lid Hinge nuts
21. Lid Knob/Handle (on back)
22. Lid Hinge
23. Side Handle
24. Thermostat, Hydraulic
25. Thermostat Control Knob
26. On/Off Switch
27. Internal Wiring Harness



Not illustrated:

28. Stainless Steel Wire Rack
29. DrainValve, Ball - 1/2 in Replacement
30 Drain, Hose, Bib
31. Replacement Tank
32. Outer Jacket
33. Fuse 10A
34. Lid Kit Handle
35. Water Thief

37. Plastic Feet
38. Pilot Lamp, Green

SS Model

Power Supply	110-120 V~, 220-240 V~
Rated Frequency	50/60 Hz
Power Consumption	1000 W
Tank Capacity	31.64 Liters
Temperature Range	160°F - 165°F (71°C - 74°C)
Thermal Cut-out Temp	190°F ± 14°F (88°C ± 8°C)
Accuracy	+/- 10%
Heating Up Time	Time to 160°F (70°C) - 3 Hours
Cool Down Time	Time from 160°F (70°C) - 2 Hours
Safety Class	Type B
Safety Tests	UL 544
Dimensions	20 in H x 18 in L x 16 in W (51 cm H x 46 cm L x 41 cm W)
Weight	21 lbs (9.5 kg)

Standard Accessories: Includes eight Standard size HotPacs.

E-2 Model

Power Supply	110-120V~, 220-240 V~
Rated Frequency	50/60 Hz
Power Consumption	1000 W
Tank Capacity	43.23 Liters
Temperature Range	160°F - 165°F (71°C - 74°C)
Thermal Cut-Out Temp	190°F ± 14°F (88°C ± 8°C)
Accuracy	+/- 10%
Heat Up Time	Time to 160°F (70°C) - 4 Hours
Cool Down Time	Time from 160°F (70°C) - 2 Hours
Safety Class	Type B
Safety Tests	UL 544
Dimensions	20 in H x 15 in L x 13 in W (51 cm H x 38 cm L x 33 cm W)
Weight	12 lbs (5.5 kg)

Standard Accessories: Includes two Oversize HotPacs, three Standard size HotPacs and 1 Neck Contour HotPac.

E-1 Model

Power Supply	110-120V~, 220-240 V~
Rated Frequency	50/60Hz
Power Consumption	1000 W
Tank Capacity	15.44 Liters
Temperature Range	160°F - 165°F (71°C - 74°C)
Thermal Cut-out Temp	190°F ± 14°F (88°C ± 8°C)
Accuracy	+/- 10%
Heating Up Time	Time to 160°F (70°C) - 2 Hours
Cool Down Time	Time from 160°F (70°C) - 1 Hour
Safety Class	Type B
Safety Tests	UL 544
Dimensions	16 in H x 13 in L x 8 in W (41 cm H x 33 cm L x 20 cm W)
Weight	15 lbs (6.8 kg)

Standard Accessories: Includes four Standard size HotPacs.

SETUP

Hydrocollator® Heating Units

Remove all of the contents inside the Hydrocollator and then replace the wire rack. Make certain the drain valve is closed before filling the tank with water. The tank should be approximately 3/4 full with packs removed. The tank may be filled from any standard type faucet.

Check the voltage rating on the serial decal plate which is located on the back of the unit. To turn the unit on, simply plug the unit into a 120 Volt~, 60 Hz or 220/240 Volt~, 50-60 Hz outlet as indicated on the decal plate. To turn the unit off, simply unplug from mains power supply. Do not attempt to use direct current. Follow the procedures indicated in the Precautionary Instructions. Do not attempt to use the unit if it is not properly grounded.

OPERATION

Hydrocollator® Heating Units

The Hydrocollator is simple and easy to operate. The controls are located in the rear, near the bottom of the unit. The thermostat controls the temperature of the water. It is located near the bottom of the unit on the control panel. It has been tested and preset at the factory to normal operating temperature. If further adjustment is necessary, it can be easily accomplished by turning the adjusting screw located on the thermostat. ***Turning the outer screw counterclockwise lowers the temperature, while turning it clockwise raises it.***

NOTE: Do not turn the inner stem.

The Hydrocollator units operate through the use of a hydraulic capillary-type thermostat and can be left plugged in and turned on to provide a ready supply of heated HotPacs .

The HotPac rack is adjustable and accommodates different sizes and types of packs.

SS Unit – Holds eight Standard Size packs. Special rack holds two Neck Contour packs.

E-2 Unit – The E-2 unit comes complete with two oversize, three Standard Size packs and one Neck Contour pack.

E-1 Unit – With the insert in, the rack accommodates four Standard Size packs.

TROUBLESHOOTING

Hydrocollator® Heating Units

The following are solutions to minor performance problems. Only qualified personnel should service equipment problems.

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
Unit Plugged In, Water Doesn't Get Hot	1. Breaker for electric circuit off. 2. Thermostat not functioning. 3. Heating element burned out.	1. Turn breaker ON. 2. Replace thermostat. 3. Replace element.
Cloudiness of Water	1. Filler from packs is seeping. 2. Too long a period between cleanings.	1. Replace packs. 2. Drain and clean.
Packs Too Hot	1. Thermostat set too high. 2. Thermostat failure.	1. Adjust thermostat. 2. Replace thermostat.
Packs Too Cool	1. Thermostat set too low. 2. Thermostat failure.	1. Adjust thermostat. 2. Replace thermostat.
Unit Boils	1. Thermostat failure.	1. Replace thermostat.
Rust	1. Contact with ferrous metal. 2. Deposits on inside of tank. 3. Too much chlorine in water.	1. Remove the ferrous metal item from the unit - usually a staple, paper clip, safety pin, etc., and clean thoroughly. 2. Thoroughly clean tank and remove all deposits. 3. Clean tank and rinse thoroughly. Add de-chlorinator if local water has high chlorine content.

Model SS 120 VOLT – Standard

Cat. No. – 2202 w/packs

Key*	Part Description	Part No.
1	Element, Heating 120 Volt, 1000 Watt	10630
4	Hydraulic Thermostat	10631
5	Brkt. & Bulb Thermostat A/B Assembly (2 each)**	21023
6	Lid	22219
9	Junction Box Cover	22223
11	Power Cord	20568
14	Hose, Drain	21635
15	Pilot Lamp, Red	22149
16	Pilot Lamp, Clear	22148
19	Drain, Copper Tube Part A	21288
20	Lid Hinge Rod Nuts (2 required)	21737
21	Lid Knob	21025
22	Lid Rod	22231
	Thermo Low Water Kit***	20548
26	Overtemp Thermostat Control	20548
27	Wiring (Internal) Harness	21031
29	DrainValve, Ball - 1/2 in Replacement	21373
34	Handle, Lid Kit	22171
35	Water Thief	21882
37	Feet, Plastic	75538
26	On/Off Switch	23406

* Key numbers refer to Nomenclature section (pages 5 and 6)

** Used to hold the Hydraulic Thermostat and Overtemp Thermostat to the Heating element.

*** Includes Gasket Thermostat, Nut 1/2-20 Brass, and Overtemp Thermostat (#26)

Model E-2 120 VOLT – Standard

Cat. No. – 2802 w/packs

Key*	Part Description	Part No.
1	Element, Heating 120 Volt, 1000 Watt	10630
4	Hydraulic Thermostat	10631
5	Brkt. & Bulb Thermostat A/B Assembly (2 each)**	21023
6	Lid	23457
9	Junction Box Cover	23460
11	Power Cord	20568
14	Hose, Drain	21635
15	Pilot Lamp, Red	22149
16	Pilot Lamp, Clear	22148
19	Drain, Copper Tube Part A	21288
21	E-2 Lid Handle	20512
	Thermo Low Water Kit***	20548
27	Wiring (Internal) Harness	21031
29	DrainValve, Ball - 1/2 in Replacement	21373
35	Water Thief	21882
26	On/Off Switch	23406

* Key numbers refer to Nomenclature section (pages 5 and 6)

** Used to hold the Hydraulic Thermostat and Overtemp Thermostat to the Heating element.

*** Includes Gasket Thermostat, Nut 1/2-20 Brass, and Overtemp Thermostat (#26)

Model E-1 120 VOLT – Standard

Cat. No. – 2102 w/packs

Key*	Part Description	Part No.
1	Element, Heating 120 Volt, 1000 Watt	21007
4	Hydraulic Thermostat	10631
5	Brkt. & Bulb Thermostat A/B Assembly (2 each)**	21023
6	Lid	21004
9	Junction Box Cover	21005
11	Power Cord	20568
15	Pilot Lamp, Red	22149
16	Pilot Lamp, Clear	22148
20	Lid Hinge Rod Nuts (2 required)	21737
28	Rack, Stainless Steel	21062
21	Handle, Lid	21025
22	Hinge Rod, Lid	22668
23	Handle, Side Kit	21994
	Thermo Low Water Kit***	20548
27	Wiring (Internal) Harness	21031
26	On/Off Switch	23406

* Key numbers refer to Nomenclature section (pages 5 and 6)

** Used to hold the Hydraulic Thermostat and Overtemp Thermostat to the Heating element.

*** Includes Gasket Thermostat, Nut 1/2-20 Brass, and Overtemp Thermostat (#26)

Model SS 220/240 VOLT – (Low Water)

Cat. No. – 2207 w/packs
Cat. No. – 2209 w/o packs

Key*	Part Description	Part No.
1	Element, Heating 1000 Watt	22245
4	Hydraulic Thermostat	10631
5	Brkt. & Bulb Thermostat A/B Assembly (2 each)**	21023
9	Junction Box Cover	22223
14	Hose, Drain	21635
15	Pilot Lamp, Red	22147
19	Drain, Copper Tube Part A	21288
20	Lid Hinge Rod Nuts (2 required)	21737
22	Lid Rod	22231
	Thermo Low Water Kit***	20548
27	Wiring (Internal) Harness	61579
29	Valve, Boiler Drain, 1/2 I.D. Chrome	21373
	Carrier, Fuse	72733
	Holder, Fuse	72734
34	Handle, Lid finished	20531
35	Water Thief	21882
	On/Off Switch	23406
	Lamp, Green	22146
	Cordset (Country Specific)	
29	Rack, Wire	22232
	Drain, Copper, Part B	21289
18	Insert, For Neck Contour Packs	21053
32	Tank, Replacement, w/Drain	23385
14	Fuse, Anti-Surge, 6.3 Amp (2)	71772

* Key numbers refer to Nomenclature section (pages 5 and 6)

** Used to hold the Hydraulic Thermostat and Overtemp Thermostat to the Heating element.

*** Includes Gasket Thermostat, Nut 1/2-20 Brass, and Overtemp Thermostat (#26)

Model E-1 220/240 VOLT – (Low Water)

Cat. No. – 2107 w/packs

Cat. No. – 2109 w/o packs

Key*	Part Description	Part No.
1	Element, Heating 1000 Watt	22245
4	Hydraulic Thermostat	10631
5	Brkt. & Bulb Thermostat A/B Assembly (2 each)**	21023
6	Lid	21004
9	Junction Box Cover	21005
15	Pilot Lamp, Red	22147
20	Lid Hinge Rod Nuts (2 required)	21737
28	Rack, Stainless Steel	21062
21	Handle, Lid	21025
22	Hinge Rod, Lid	22668
23	Handle, Side Kit (2)	21994
	Thermo Low Water Kit***	20548
27	Wiring (Internal) Harness	61579
	Pilot Lamp, Green	22146
11	Cordset (Country Specific)	
18	Insert, For Neck Contour Packs	21053
	Receptacle, Power	74723
	Carrier, Fuse	72733
	Holder, Fuse	72734
14	Fuse, Anti-Surge, 6.3 Amp (2)	71772
	Washer, Nylon	21027

* Key numbers refer to Nomenclature section (pages 5 and 6)

** Used to hold the Hydraulic Thermostat and Overtemp Thermostat to the Heating element.

*** Includes Gasket Thermostat, Nut 1/2-20 Brass, and Overtemp Thermostat (#26)

Model E-2 220/240 VOLT – (Low Water)

Cat. No. – 2806 w/packs
Cat. No. – 2808 w/o packs

Key*	Part Description	Part No.
1	Element, Heating 1000 Watt	22245
4	Hydraulic Thermostat	10631
5	Brkt. & Bulb Thermostat A/B Assembly (2 each)**	21023
6	Lid	23457
9	Junction Box Cover	23460
10	Cordset (Country Specific)	
14	Hose, Drain	21635
19	Drain, Copper Tube Part A	21288
21	E-2 Lid Handle	20512
25	Thermo Low Water Kit***	20548
27	Wiring (Internal) Harness	61579
29	DrainValve, Ball - 1/2 in Replacement	21373
35	Water Thief (2)	21882
26	On/Off Switch	23406
	Lamp, Green, Lens	22146
15	Lamp, Red, Lens	22147
	Carrier, Fuse (2)	72733
	Holder, Fuse (2)	72734
14	Fuse, Anti-Surge, 6.3 Amp (2)	71772
22	Lid, Rod	90796
	Insert, For Neck Contour Packs	21053
	Rack, Wire	22259

* Key numbers refer to Nomenclature section (pages 5 and 6)

** Used to hold the Hydraulic Thermostat and Overtemp Thermostat to the Heating element.

*** Includes Gasket Thermostat, Nut 1/2-20 Brass, and Overtemp Thermostat (#26)

Care and Cleaning

The Hydrocollator is equipped with an immersion type heating element and a hydraulic capillary type thermostat which evenly maintains the HotPac temperature in the water and provides a ready supply of heated packs. It is critical to maintain the water level over the top of the HotPac to avoid damage to the heating element, the stainless steel, or the HotPac. Water is constantly lost during operation due to evaporation. Therefore, it is essential that water be added daily. The tank should also be drained and cleaned systematically, at minimum intervals of every two weeks.

Always unplug the unit from the power source when emptying or cleaning the unit. Drain the unit by the drain valve located at the bottom rear of the unit. Either move the unit to a floor drain or attach the extension hose to it when draining.

⚠ WARNING

- Do not move the Hydrocollator while filled with water. Tipping over could result in a burn to the user or others.
- Always unplug the Hydrocollator from the power source before attempting to empty water from unit.

Your Hydrocollator Heating Unit is made of high quality stainless steel that should last a lifetime. You must properly care for your Hydrocollator Heating Unit if you wish for it to last a lifetime.

Follow these simple steps to ensure that your Hydrocollator Heating Unit lasts.

1. Chlorine means rust to stainless steel. No bleach or any cleaner with high chlorine content should be used.
2. Clean regularly for optimal service and operation.
   NOTE: Failure to maintain your equipment (including regular cleaning) will void your warranty.
3. Fill daily with water. Water is constantly lost during operation due to evaporation.
4. Chlorine in regular tap water may be present in high enough concentrations to damage your unit. If you suspect high levels of chlorine in your Hydrocollator Heating Unit, we recommend the addition of a dechlorinator.
5. Certain additives (such as herbal teas, essential oils, etc.) will damage the components of the heating unit including the stainless steel. The Hydrocollator Heating Unit was designed to heat water and HotPacs only.

To avoid potential for rusting:

1. **Do not** use bleach or cleaners with high chlorine content.
2. **Do not** use paper clips, safety pins, staples, coat hangers, etc., in or on the unit.
3. **Do not** clean the unit with steel wool or a carbon steel brush.
4. **Do not** use abrasive cleaners which tend to disturb the grain in the finish.
5. Water level is critical: Add water daily and keep it full.
6. Regularly clean and drain the tank (every two weeks).
7. Remove all deposits from interior surfaces and parts (including heating element). The deposits are concentrations of chlorine that allow rusting to begin. If allowed to accumulate on the heating element, these deposits will lower the efficiency of the element and increase the power consumption of the unit.
8. If you suspect that you have “hard water”, you may need to change your water more frequently. Salt deposits are an indication of hard water that will eventually cause rust.

Cleaning Tips

1. The interior of the unit should be cleaned, usually every two weeks, using a low abrasive bathroom cleaner. Check for low or no chlorine content in your cleaner and make sure that the residue is thoroughly rinsed away with water.
2. A strong solution of vinegar and water will usually dissolve away deposits, which then must be thoroughly rinsed away.

Care of HotPacs

Always return the Hydrocollator HotPac to the hot water of the heating unit after each treatment. There it is heated, kept clean and ready for immediate use. The HotPac may be boiled; however, this hastens the deterioration of the pack. The pack may also be cleaned by scrubbing the pack with soap and water. The simplified method of keeping the pack clean is to keep it immersed in water.

The Hydrocollator HotPac, under constant daily use, should have a useful life of at least one year. When the pack begins to wear out, the filler oozes and leaks through the fabric of the cloth and sections of the pack appear to be loose and empty and will not retain heat properly. The pack should be replaced when it reaches this state. Original replacement Hydrocollator HotPacs may be ordered from an authorized Chattanooga Group dealer.

NOTE: If HotPacs are to be stored for extended periods, they may be placed - while wet - in plastic bags and stored in a freezer.

WARRANTY

Chattanooga Group ("Company") warrants that the Hydrocollator Models SS, E-2, and E-1 Heating Units ("Products") are free of defects in material and workmanship. This warranty shall remain in effect for one year from the date of original consumer purchase. If these Products fail to function during the one year warranty period due to a defect in material or workmanship, Company or the selling dealer will repair or replace this Product without charge within a period of thirty days from the date on which the Product is returned to the Company or the dealer.

All repairs to the Product must be performed by a service center authorized by the Company. Any modifications or repairs performed by unauthorized centers or groups will void this warranty.

To participate in warranty coverage, this Product's warranty registration card (included with Product) must be filled out and returned to the Company by the original owner within ten (10) business days of purchase.

This Warranty Does Not Cover:

Replacement parts or labor furnished by anyone other than the Company, the selling dealer or a certified Company service agent.
Defects or damage caused by labor furnished by someone other than Company, the selling dealer or a certified Company service agent.
Any malfunction or failure in the Product caused by product misuse, including, but not limited to, the failure to provide reasonable and necessary maintenance or any use that is inconsistent with the Product User's Manual.

COMPANY SHALL NOT BE LIABLE IN ANY EVENT FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

To obtain service from Company or the selling dealer under this warranty:

1. A written claim must be made within the warranty period to the Company or the selling dealer. Written claims made to the Company should be sent to:

   4717 Adams Road
   P.O. Box 489
   Hixson, TN 37343 USA
   Telephone: (423) 870-2281 USA
   Telephone: (800) 361-3661 Canada
   Outside USA: +1 (423) 870-7200
   Facsimile: (423) 875-5497

2. The Product must be returned to the Company or the selling dealer by the owner.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

The Company does not authorize any person or representative to create for it any other obligation or liability in connection with the sale of the Product. Any representation or agreement not contained in the warranty shall be void and of no effect.

THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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